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MAR 20 2003

Substitute for form 1449A/PTO

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

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of

1

Application Number

09/742,171

Filing Date

12/19/00

First Named Inventor

Steven Teig

Group Art Unit

2825

Examiner Name

A.M. Thompson

Attorney Docket Number

SPLX.P0017

## **U.S. PATENTS RELATED TO THE PRESENT APPLICATIONS**

Examiner* Initials	Cite No.	U.S. Patent Document Number Kind Code* (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication MM-DD-YYYY	Relation to Present Application
	1.	6,516,455 B1	Teig, et al.	02-04-03	

## **U.S. PATENT DOCUMENTS**

Examiner* Initials	Cite No.	U.S. Patent Document Number Kind Code* (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	2.	2001/ 0003843 A1	Scepanovic et al.	06-14-01	
	3.	5,097,422	Corbin, II et al.	03-17-92	
	4.	5,532,934	Rostoker	07-12-96	
	5.	5,566,078	Ding et al.	10-15-96	
	6.	5,578,840	Scepanovic et al.	11-26-96	
	7.	5,650,653	Rostoker et al.	07-22-97	
	8.	5,742,086	Rostoker et al.	04-21-98	
	9.	5,757,656	Hershberger et al.	05-26-98	
	10.	5,777,360	Rostoker et al.	07-07-98	
	11.	5,811,863	Rostoker et al.	09-22-98	
	12.	5,822,214	Rostoker et al.	10-13-98	
	13.	5,859,449	Kobayashi et al.	01-12-99	
	14.	5,914,887	Scepanovic et al.	06-22-99	
	15.	5,973,376	Rostoker et al.	10-26-99	
	16.	6,035,108	Kikuchi	03-07-00	
	17.	6,058,254	Scepanovic et al.	05-02-00	
	18.	6,068,662	Scepanovic et al.	05-30-00	
	19.	6,123,736	Pavisc et al.	09-26-00	
	20.	6,134,702	Scepanovic et al.	10-17-00	
	21.	6,155,725	Scepanovic et al.	12-05-00	
	22.	6,216,252 B1	Dangelo et al.	04-10-01	

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24-AUGUST-2003

\* EXAMINER: Initial reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

<sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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**U.S. PATENTS RELATED TO THE PRESENT APPLICATIONS**

23.	6,249,902	B1	Igusa et al.	06-19-01	
24.	6,260,179	B1	Ohsawa et al.	07-10-01	
25.	6,301,686	B1	Kikuchi et al.	10-09-01	
26.	6,385,758	B1	Kikuchi et al.	05-07-02	
27.	6,405,358	B1	Nuber	06-11-02	
28.	6,412,097	B1	Kikuchi et al.	06-25-02	

**FOREIGN PATENT DOCUMENTS**

Examiner* Initials	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code (if known) <sup>5</sup>				
	29.	JP	64-15947		Ouchi	01-19-89		

**NON PATENT LITERATURE DOCUMENTS**

Examiner* Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>
	30.	A.H. Farrahi et al., Quality of EDA CAD Tools: Definitions, Metrics and Directions, Quality Electronic Design, 2000, Proceedings of the first International Symposium on March 2000, pp 395-405.	
	31.	C. Chiang, et al., Wirability of Knock-Knee Layouts with 45° Wires, IEEE Transactions on Circuits and Systems, Vol. 38, Issue 6, pp 613-624, June 1991.	
	32.	J. Su et al., Post-Route Optimization for Improved Yield Using Rubber-Band Wiring Model, 1997 International Conference on Computer-Aided Design, pp 700-706, November 1997.	
	33.	J. Vicente, RSR: A New Rectilinear Steiner Minimum Tree Approximation for FPGA Placement and Global Routing, Proceedings of the 24 <sup>th</sup> Euro Micro Conference, pp 192-195, August 1998.	
	34.	K. Powers et al., The 60° Grid: Routing Channels in Width d/square root 3, VLSI, 1991, Proceedings., First Great Lakes Symposium on Kalamazoo, MI, USA, pp 214-291, March 1991.	
	35.	M. Alexander et al., Performance-Oriented Placement and Routing for field-programmable gate arrays, Proceedings of the European Design Automation Conference, pages 80-85, 1995.	
	36.	M. Alexander et al., Placement and Routing for Performance-Oriented FPGA Layout, VLSI Design, Vol. 7, No. 1, 1998.	
	37.	P. Dood, et al. A Two-Dimensional Topological Compactor with Octagonal Geometry, 28 <sup>th</sup> ACM/IEEE Design Automation Conference, pp 727-731, July 1991.	

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				Examiner Name	A.M. Thompson
Sheet	3	of	3	Attorney Docket Number	SPLX.P0017

NON PATENT LITERATURE DOCUMENTS		
38.	P. Parikh, et al., Congestion Driven Quadratic Placement, Proceedings of Design Automation Conference, 1998, pp 275-278.	
39.	R. Putatunda et al., VITAL: Fully Automatic Placement Strategies for Very Large Semicustom Designs, Proceedings of the International Conference on Computer Design: VLSI in Computers and Processors, pp 434-439 October 1988.	
40.	S. Dutt, et al., Probability-Based Approaches to VLSI Circuit Partitioning, IEEE Trans. on Computer-Aided Design of IC's and Systems, Vol. 19, No. 5, May 2000, pp 534-549.	
41.	Y. Sekiyama et al., Timing-Oriented Routers for PCB Layout Design of High-Performance Computers, International Conference on Computer Aided Design, pp 332-335, November 1991.	

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